T00T50" 2856260

IC (Top View)

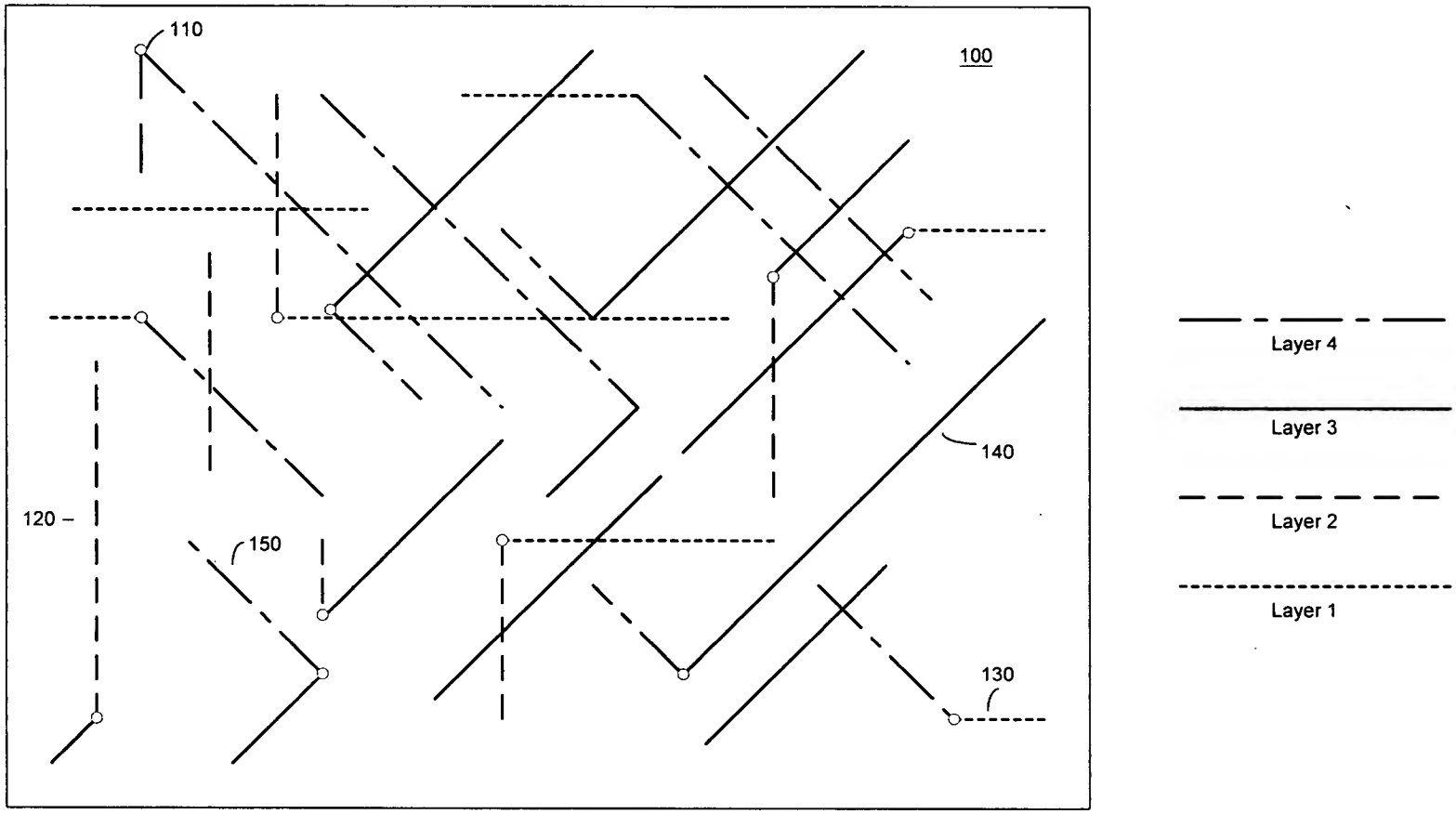


Figure 1a

TOOTSO"28S6E760

IC (Top View)

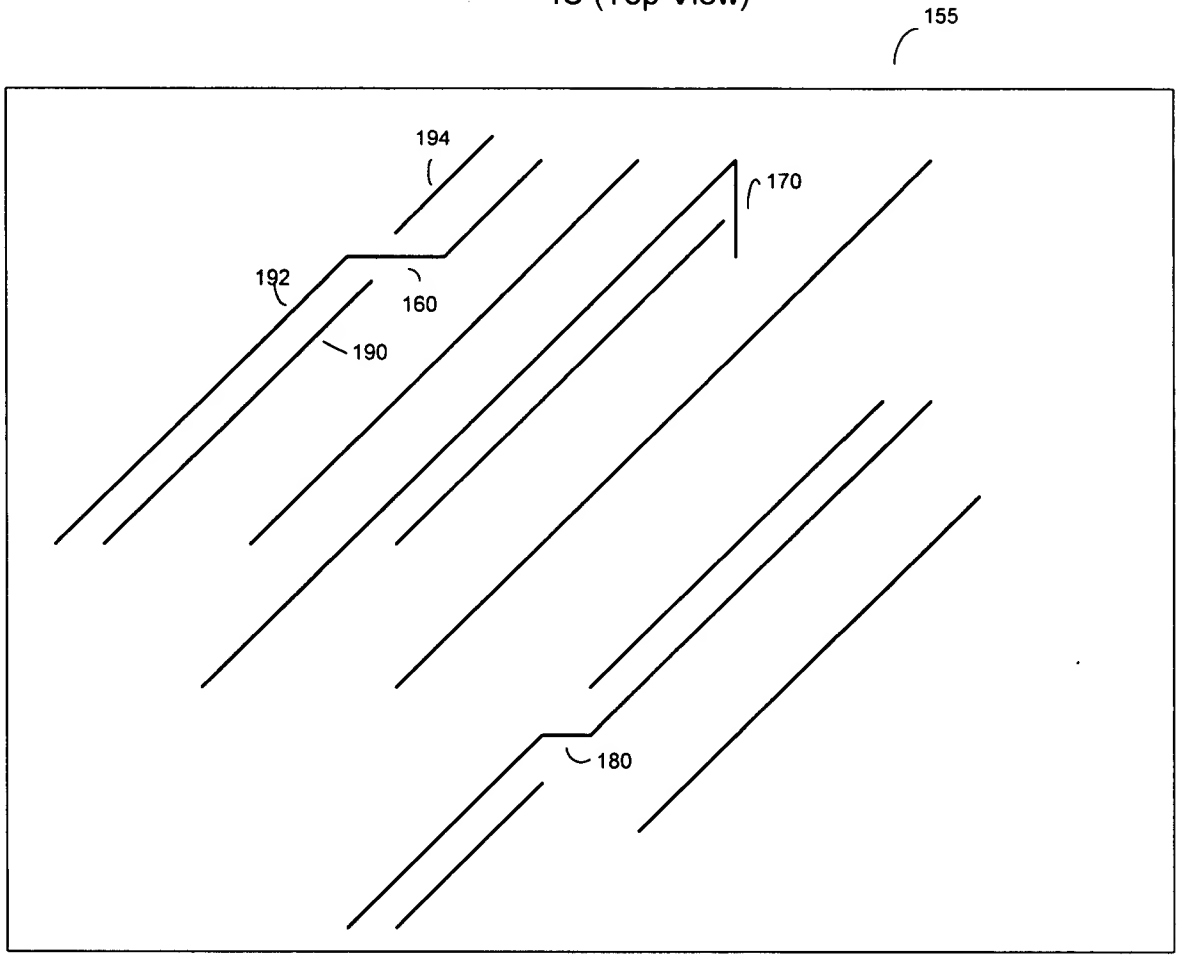
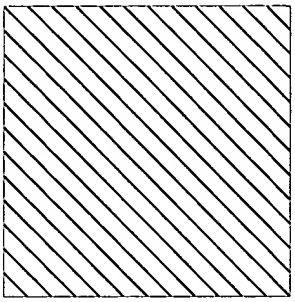
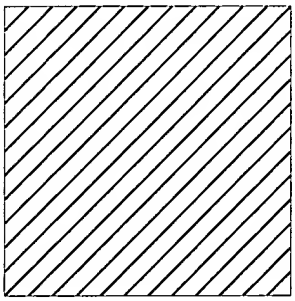


Figure 1b



Layer "n+1"

Octalinear (-45 Deg.)

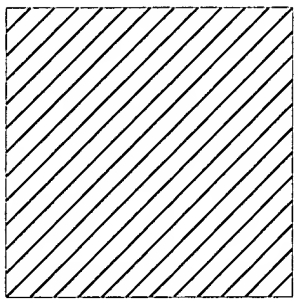


Layer "n"

Octalinear (+45 Deg.)

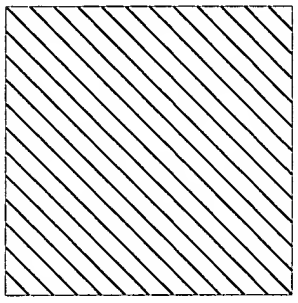
Figure 2a

EP 0 754 095 B1



Layer "n+1"

Octalinear (+45 Deg.)



Layer n

Octalinear (-45 Deg.)

Figure 2b

D5N5G5N5 - 05H05

7050350 - 05/12/06

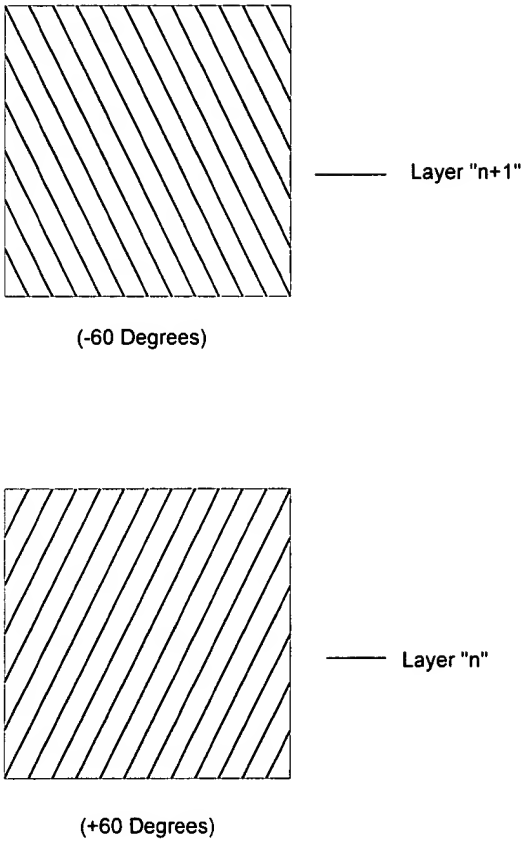


Figure 3a

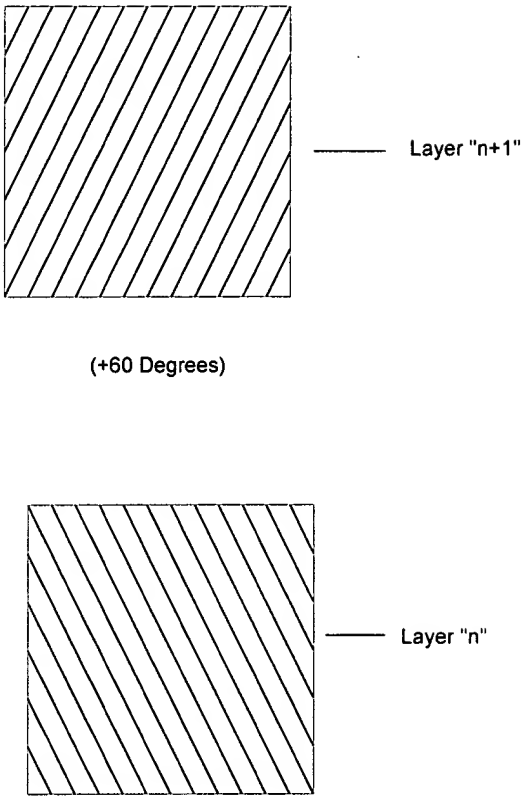


Figure 3b

EP 0 956 202 B1

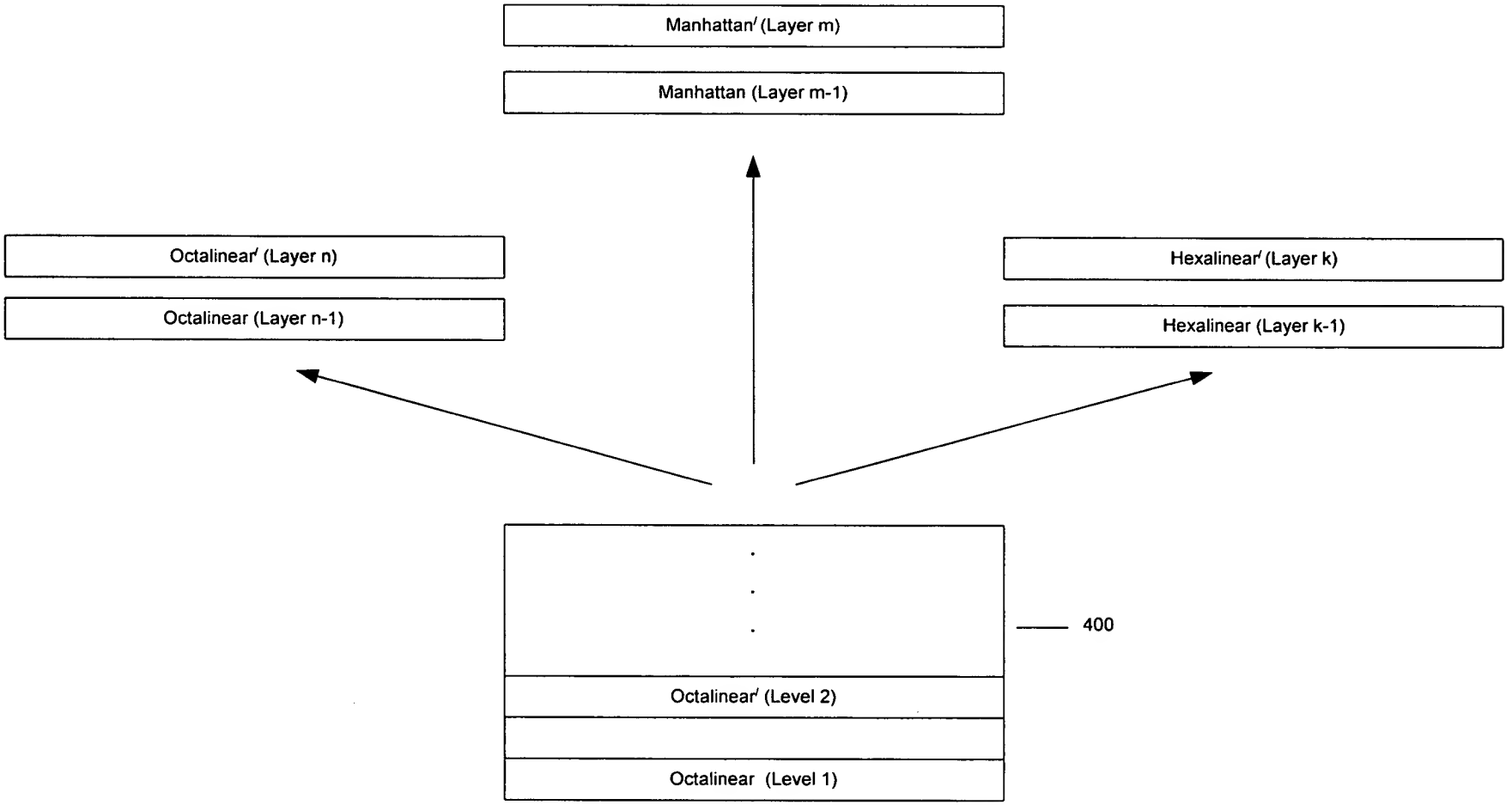

Manhattan' (Layer m)
Manhattan (Layer m-1)
Octalinear' (Layer n)
Octalinear (Layer n-1)
Hexalinear' (Layer k)
Hexalinear (Layer k-1)
400
Octalinear' (Level 2)
Octalinear (Level 1)

Figure 4a

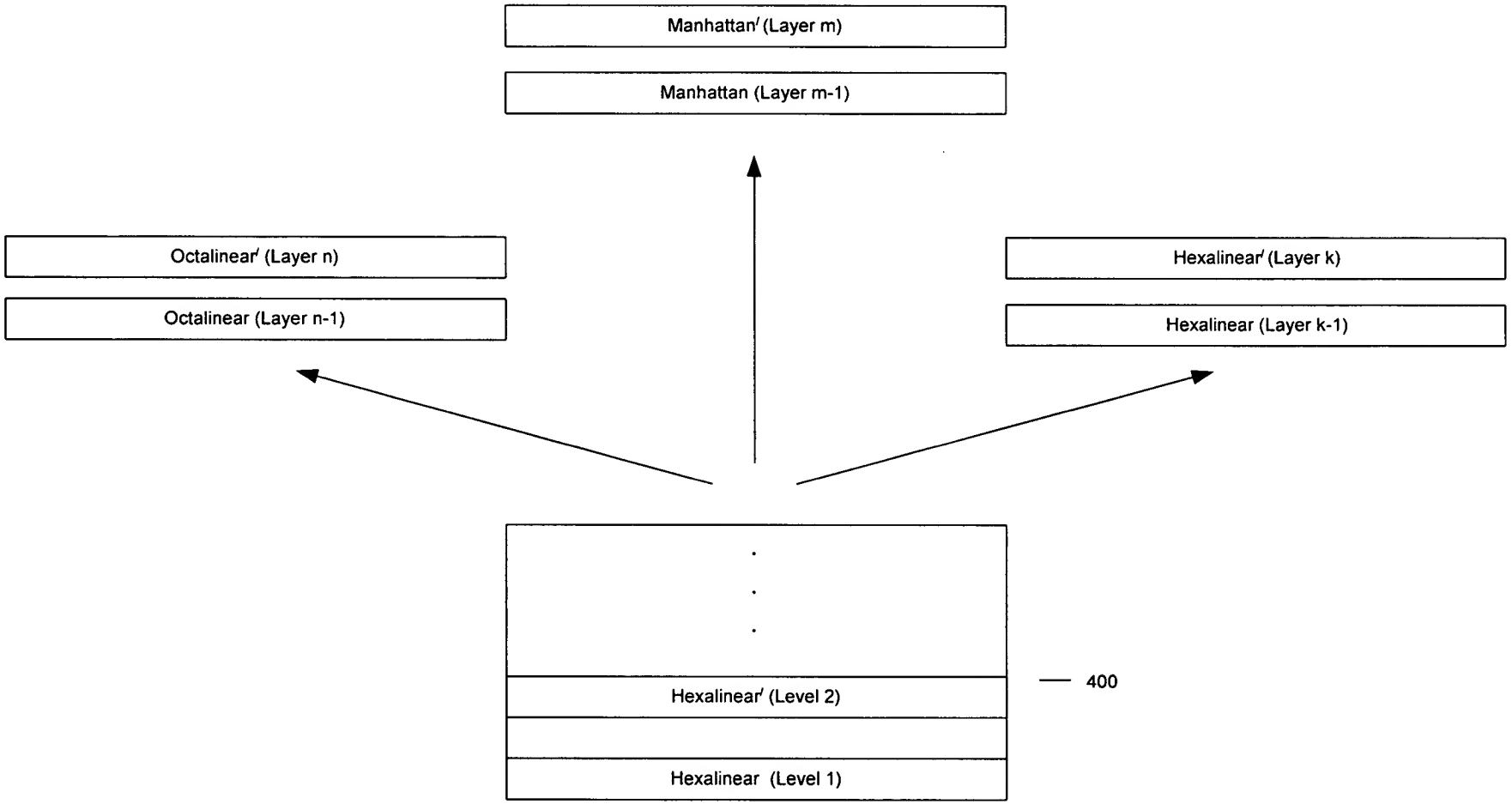

Manhattan' (Layer m)
Manhattan (Layer m-1)
Octalinear' (Layer n)
Octalinear (Layer n-1)
Hexalinear' (Layer k)
Hexalinear (Layer k-1)
Hexalinear' (Level 2)
Hexalinear (Level 1)
400

Figure 4b

T00T50" 2856E260

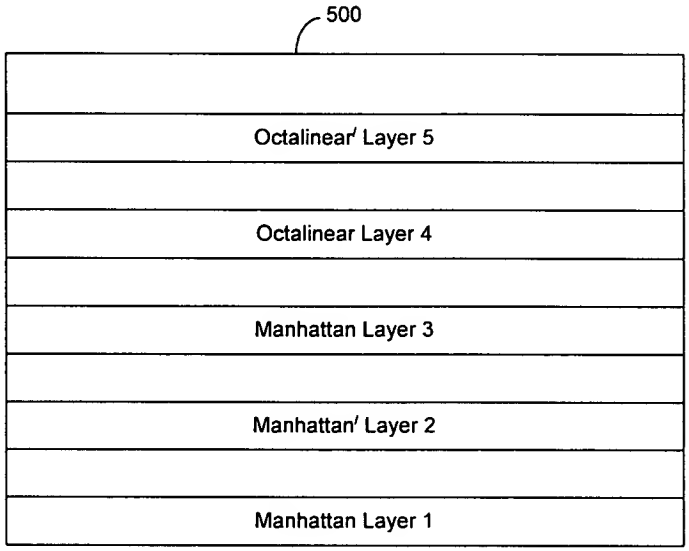


Figure 5a

T00T50" 2856E260

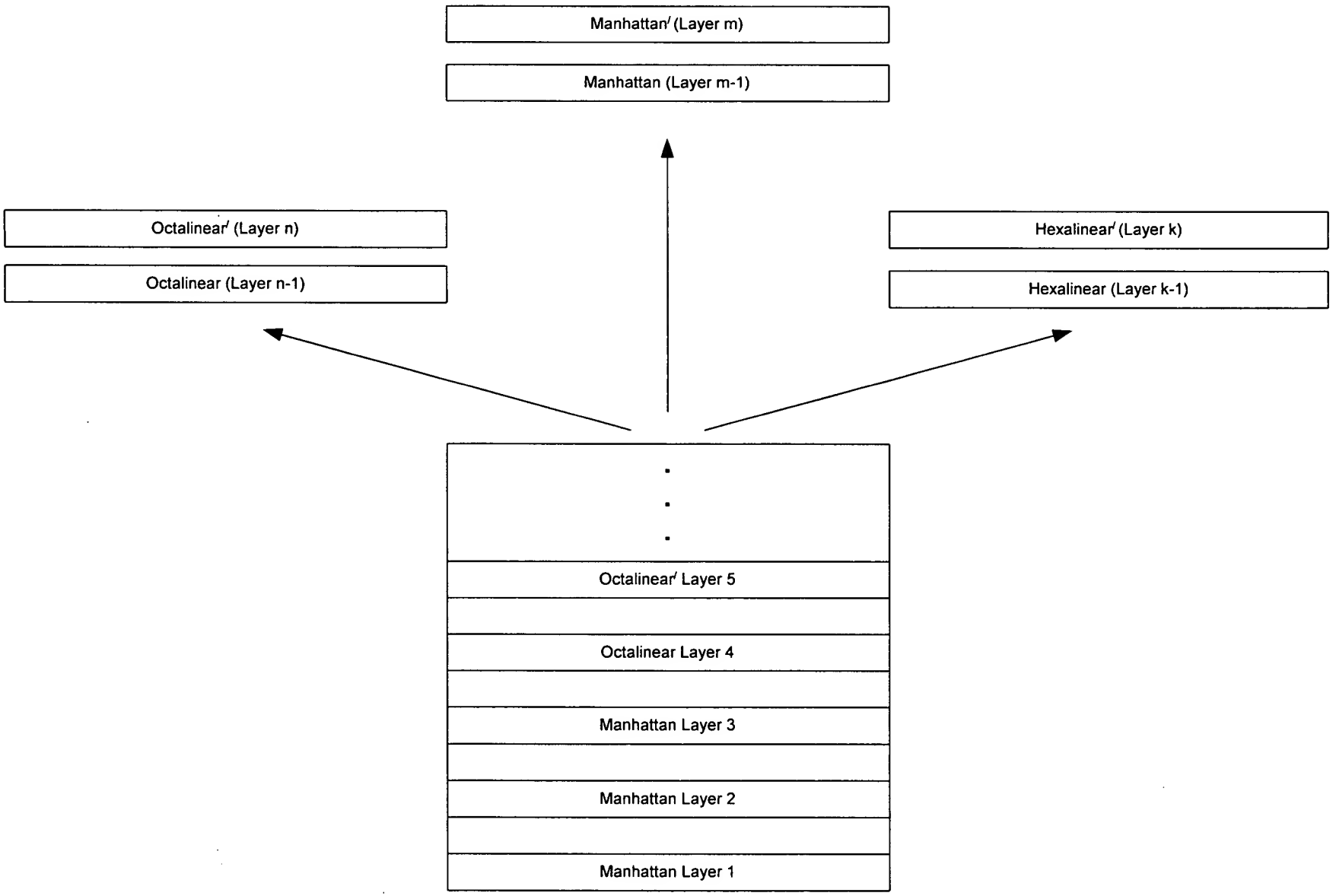
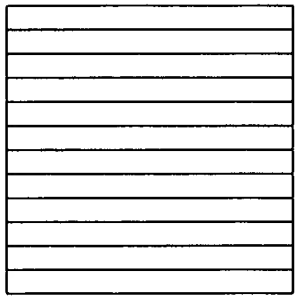
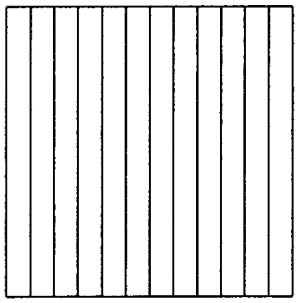


Figure 5b



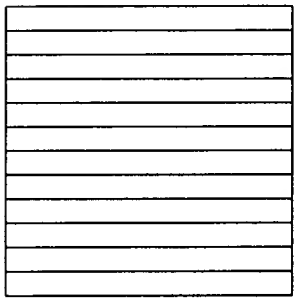
Layer 3

Horizontal



Layer 2

Vertical

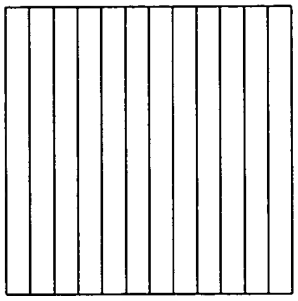


Layer 1

Horizontal

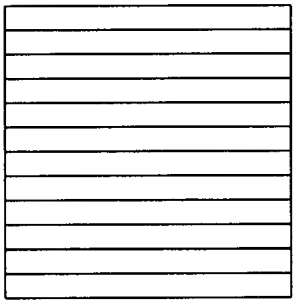
Figure 6a

WO 2004/059562 PCT/GB2003/005688



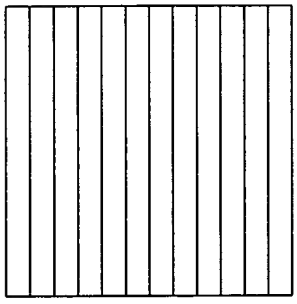
Layer 3

Vertical



Layer 2

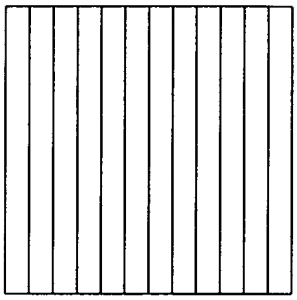
Horizontal



Layer 1

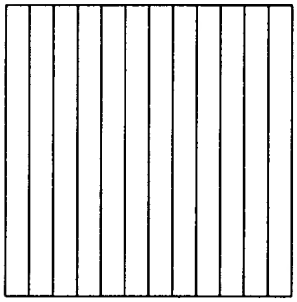
Vertical

Figure 6b



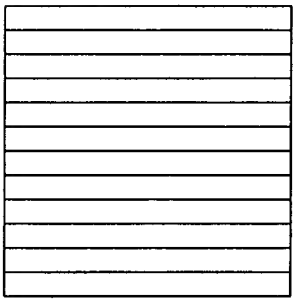
Layer 3

Vertical



Layer 2

Vertical



Layer 1

Horizontal

Figure 6c

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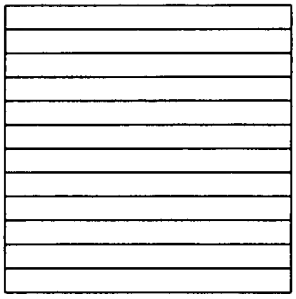
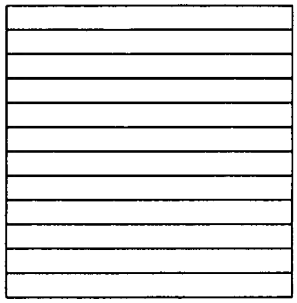


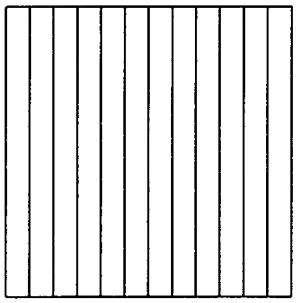
Layer 3

Horizontal



Layer 2

Horizontal



Layer 1

Vertical

Figure 6d

US 7,050,078 B2

TOTSO" 2856260

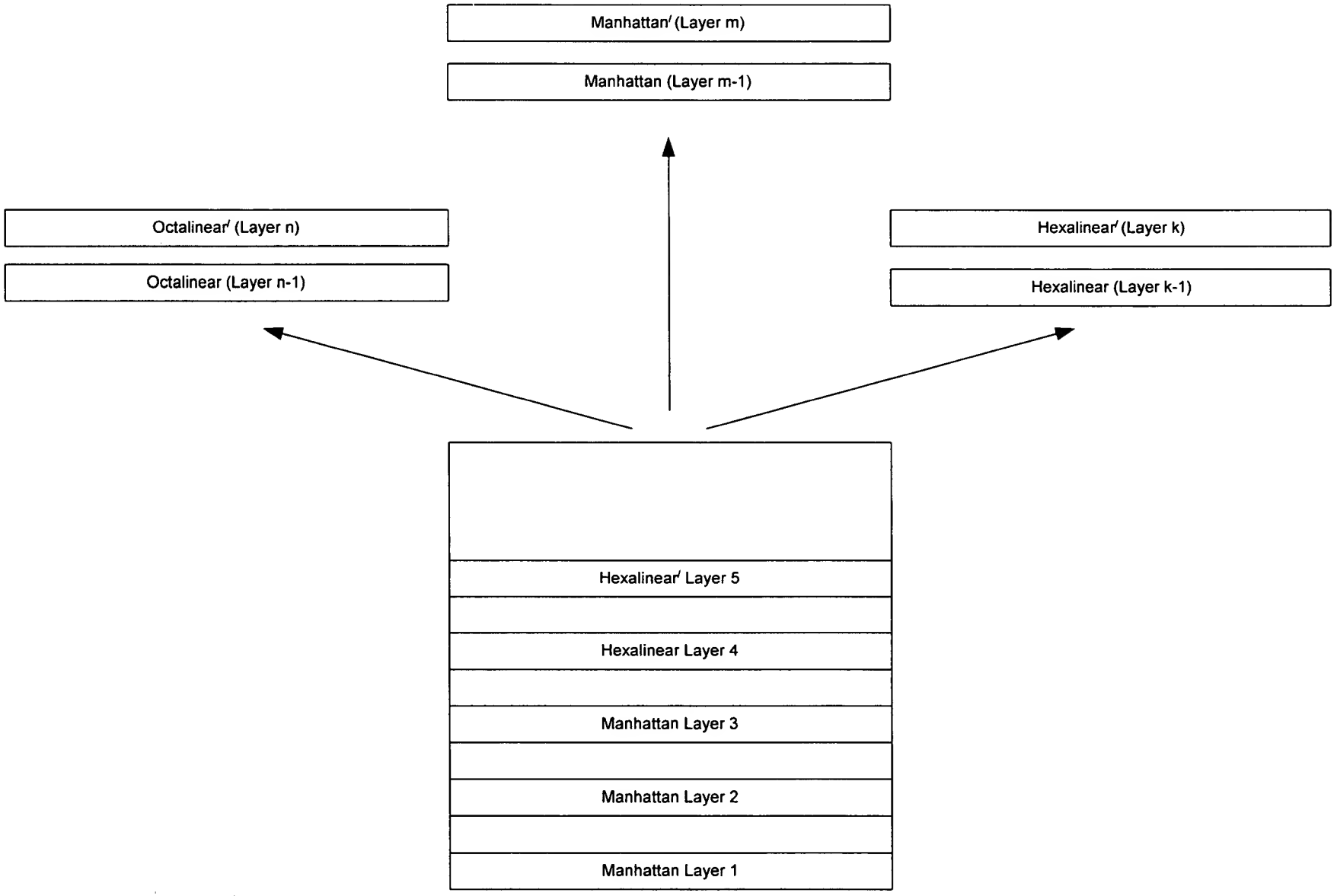


Figure 7

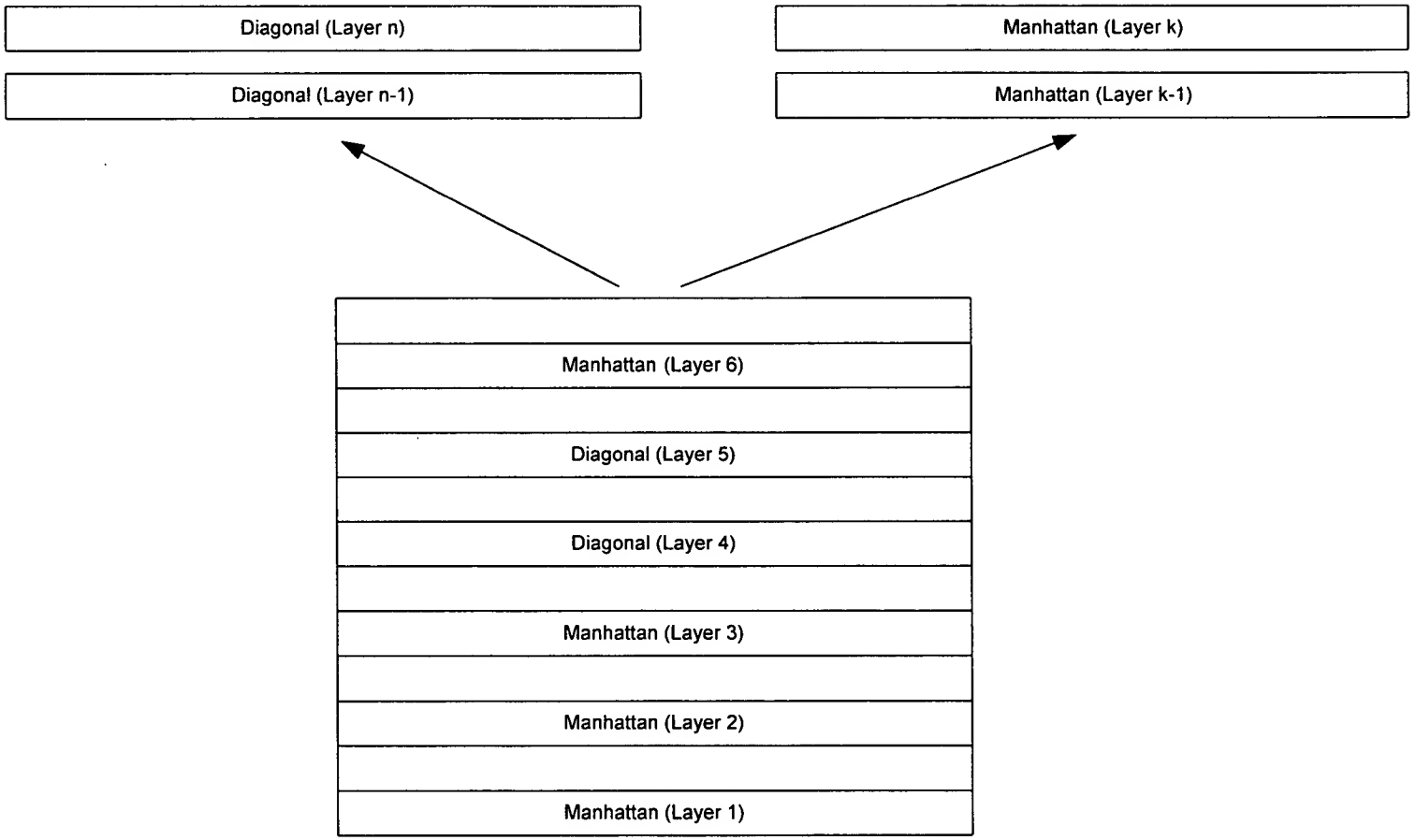

Diagonal (Layer n)
Diagonal (Layer n-1)
Manhattan (Layer k)
Manhattan (Layer k-1)
Manhattan (Layer 6)
Diagonal (Layer 5)
Diagonal (Layer 4)
Manhattan (Layer 3)
Manhattan (Layer 2)
Manhattan (Layer 1)

Figure 8

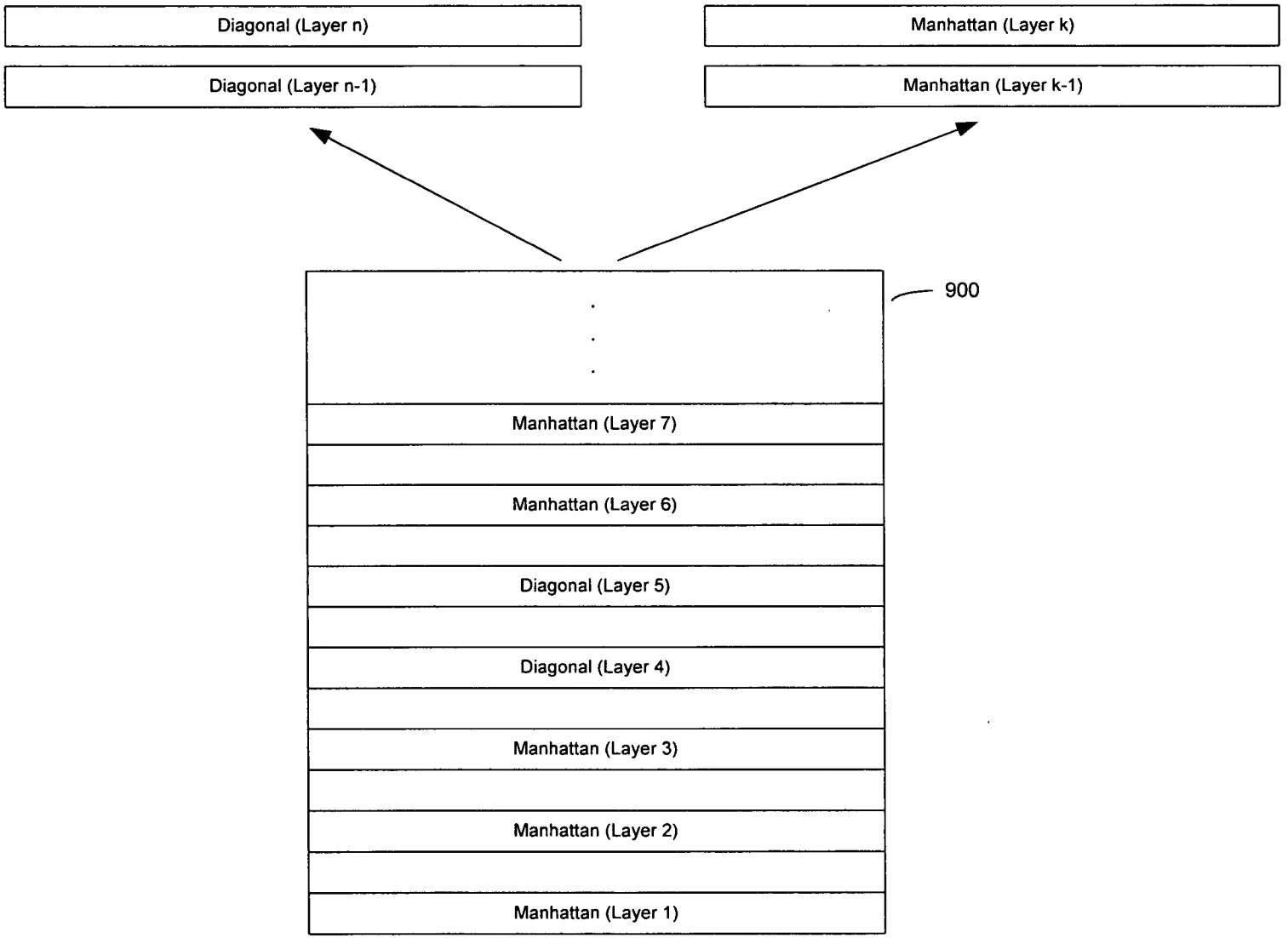

Diagonal (Layer n)
Diagonal (Layer n-1)
Manhattan (Layer k)
Manhattan (Layer k-1)
900
Manhattan (Layer 7)
Manhattan (Layer 6)
Diagonal (Layer 5)
Diagonal (Layer 4)
Manhattan (Layer 3)
Manhattan (Layer 2)
Manhattan (Layer 1)

Figure 9

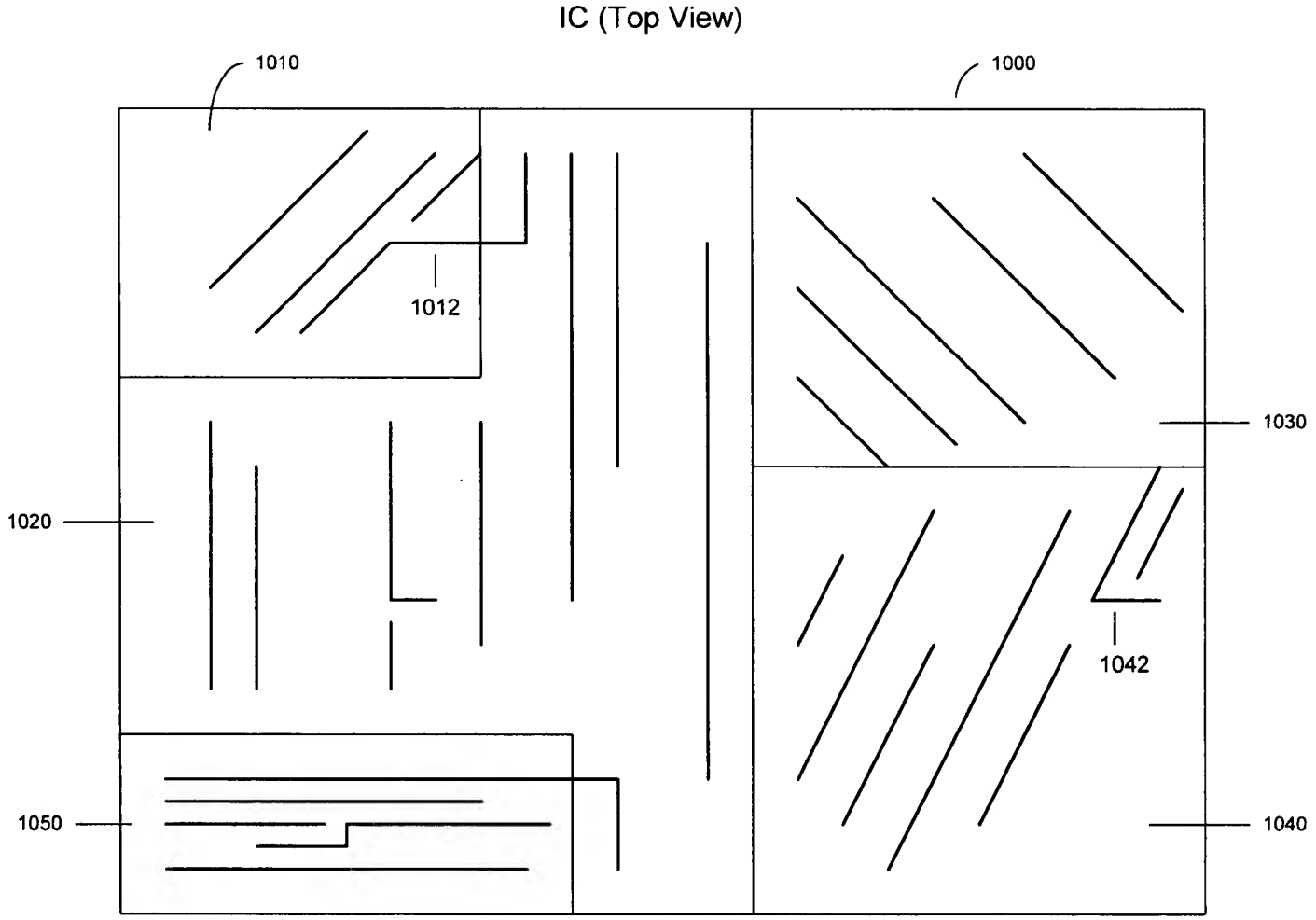


Figure 10

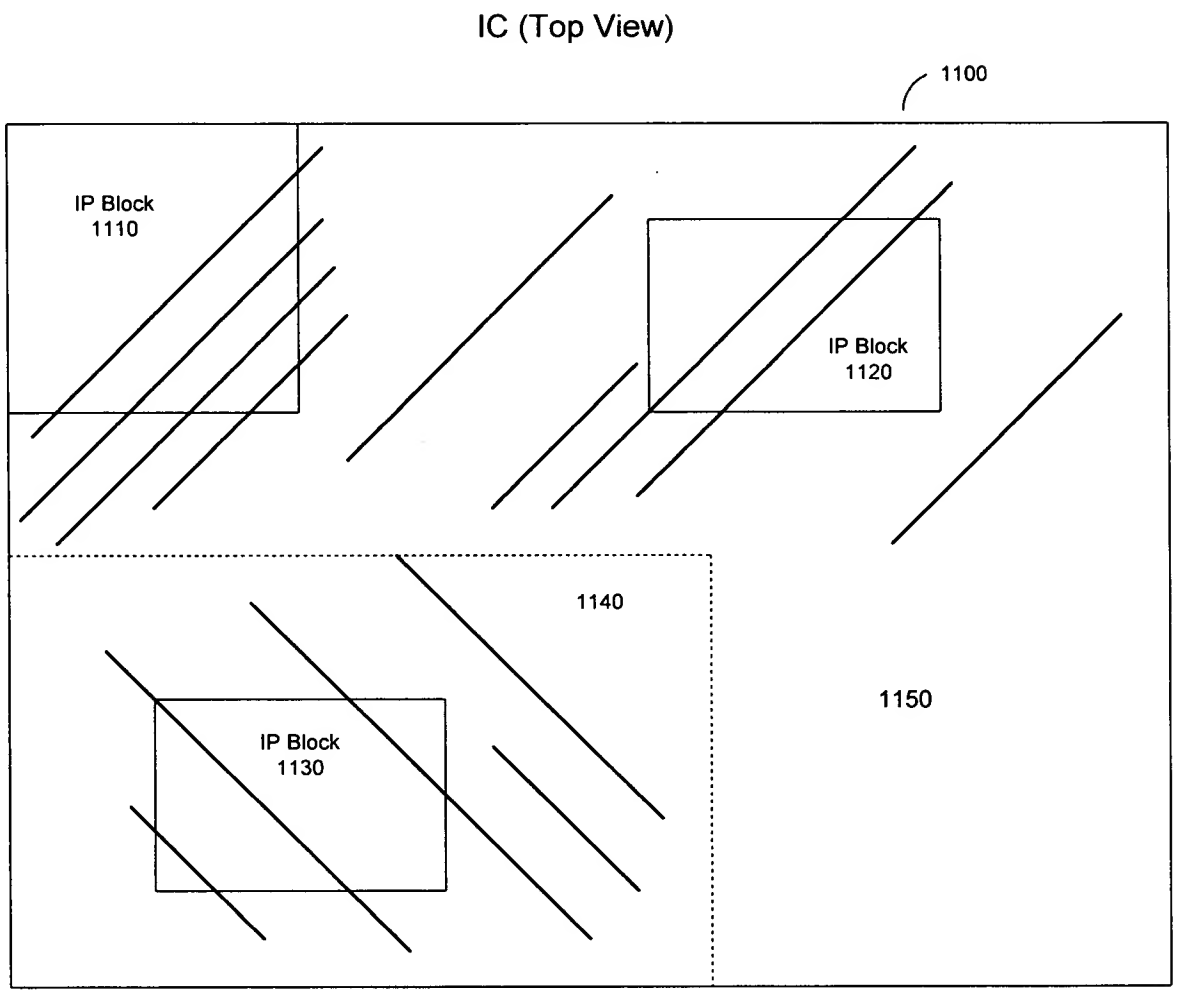

IC (Top View)
1100
IP Block
1110
IP Block
1120
1140
1150
IP Block
1130

Figure 11

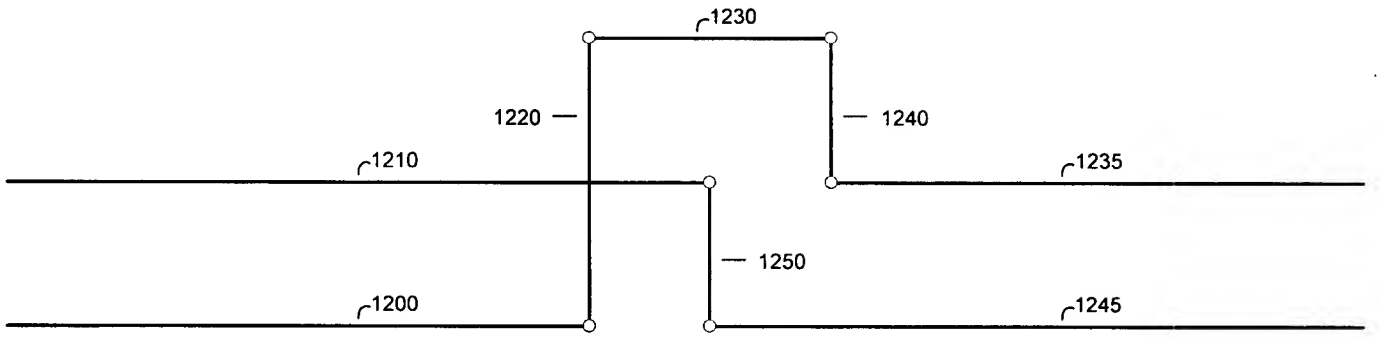


Figure 12a

Prior Art

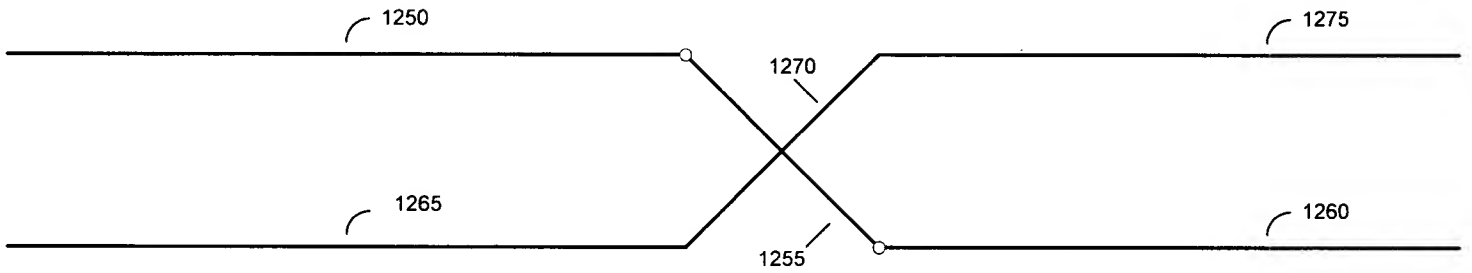


Figure 12b

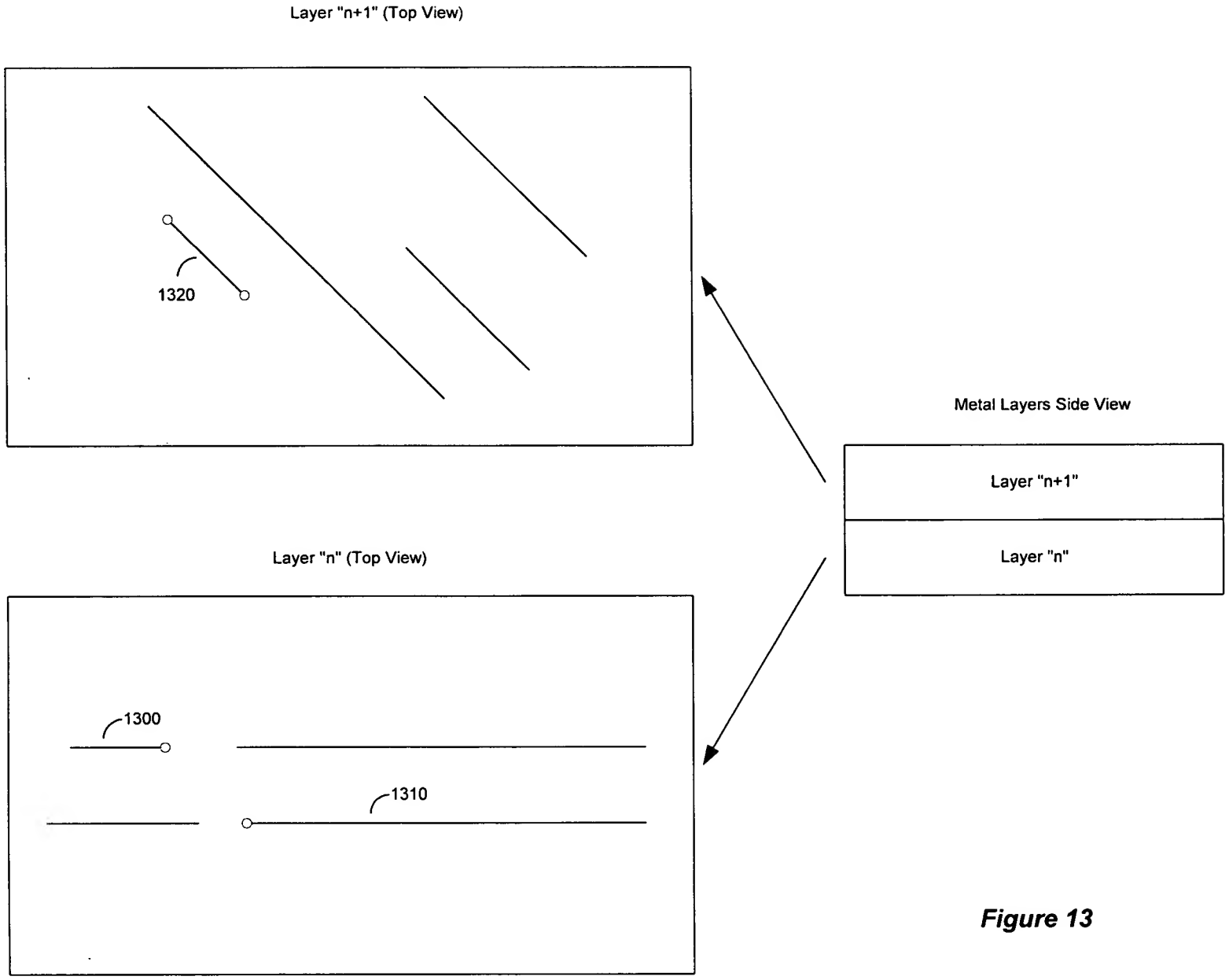

Layer "n+1" (Top View)
1320
Metal Layers Side View
Layer "n+1"
Layer "n"
Layer "n" (Top View)
1300
1310

Figure 13

T00T50" 2856260

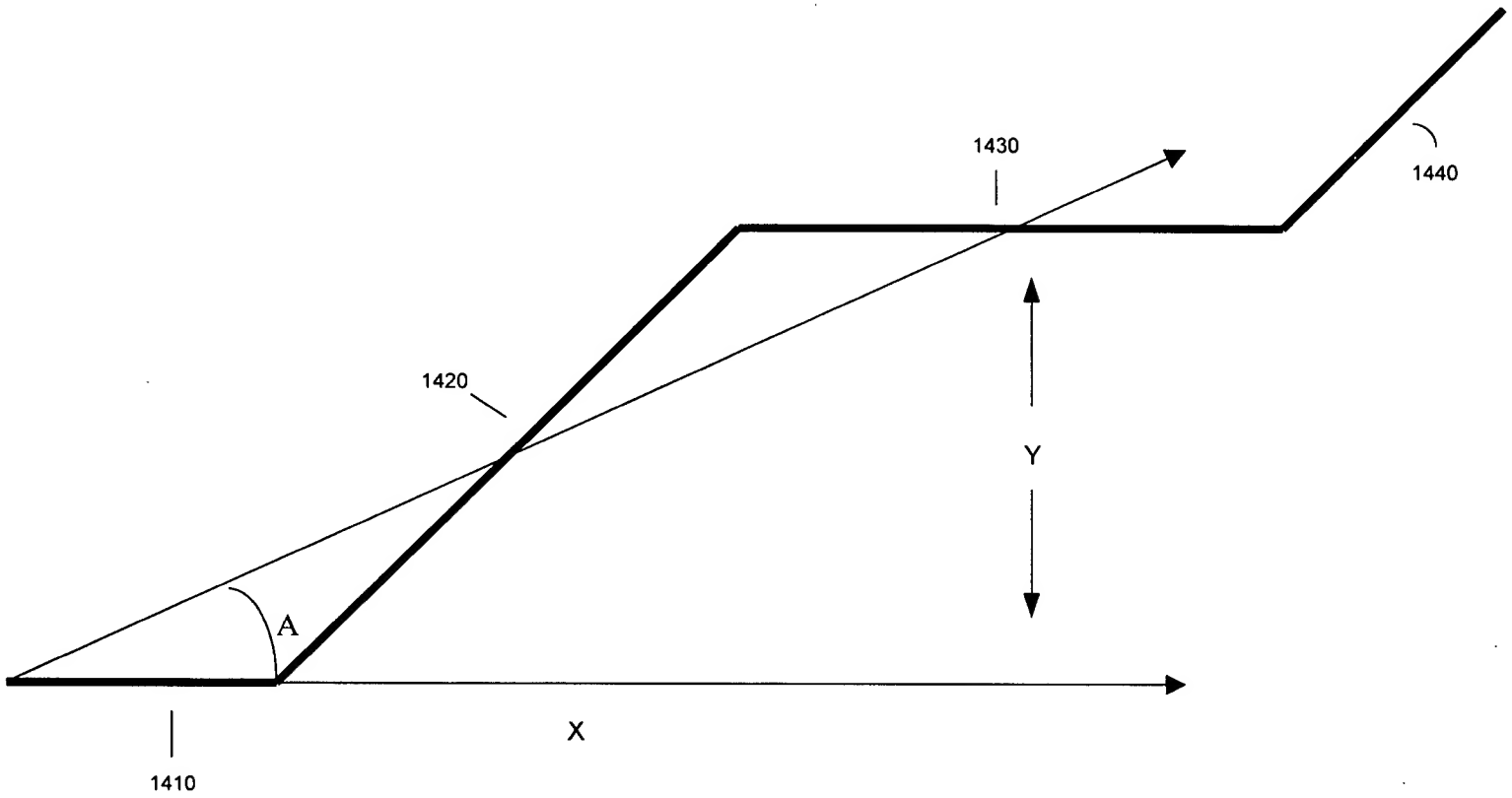


Figure 14

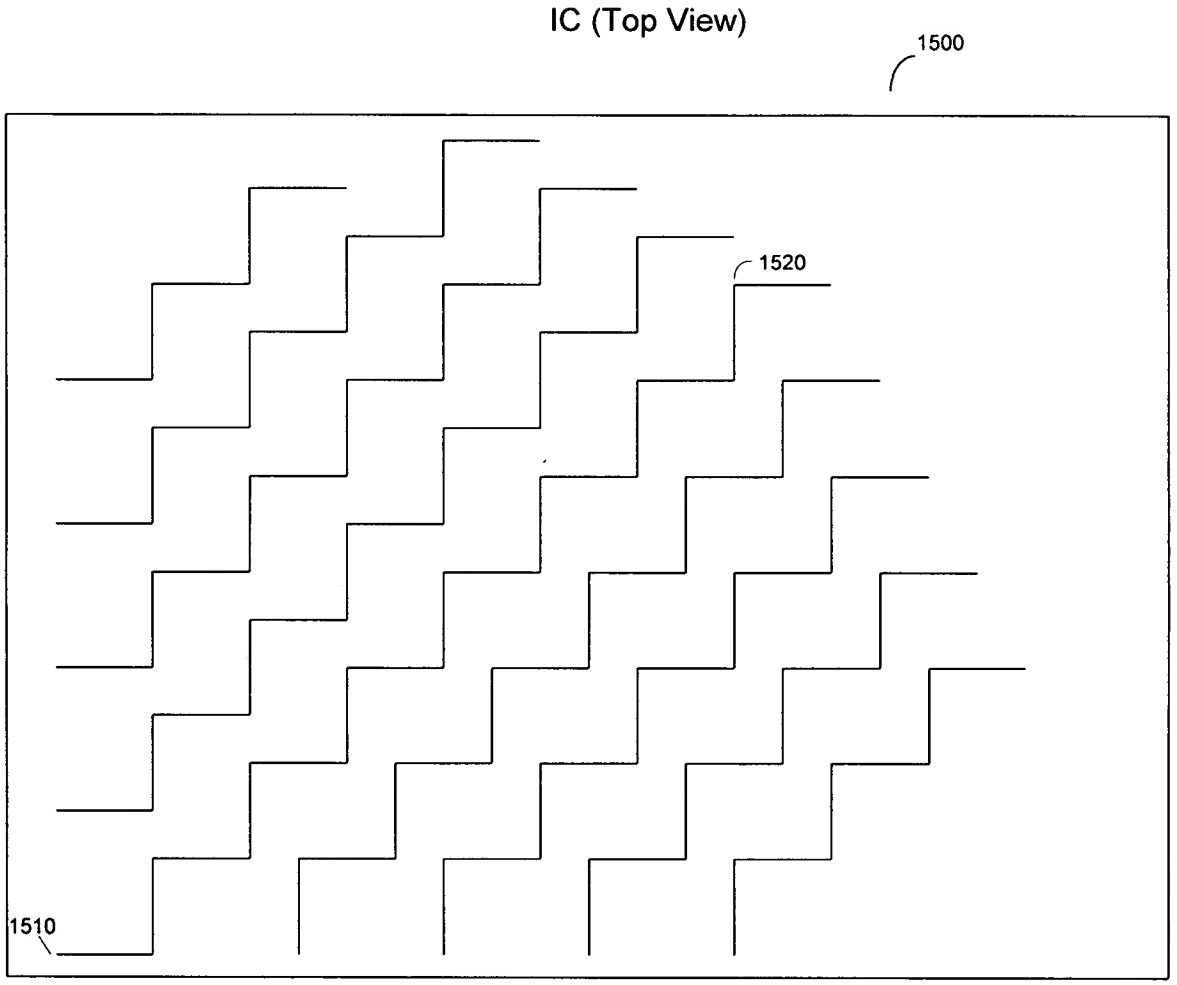


Figure 15

TOOTSO" 2856E760

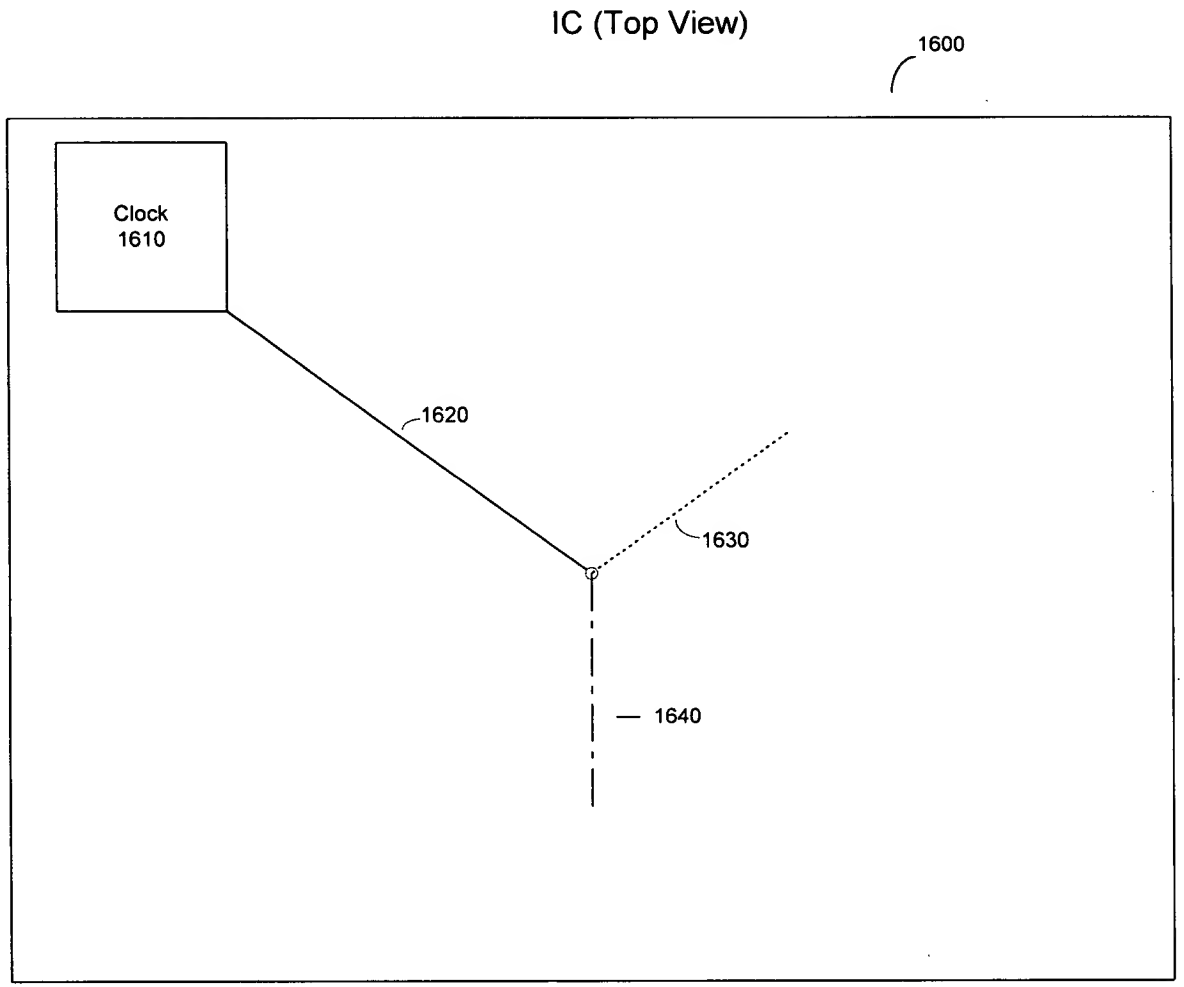


Figure 16